

SINGER®

Sew-Ware Conversion Tool



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The complete

USER'S MANUAL

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Contents

1. Getting Started-Setting up the System	1
1.1 Contents of package-Accessories	1
1.2 Additional required Accessories(not provided)	2
1.3 Minimum System Requirements	2
1.4 Installation of the “Sew-Ware Conversion Tool” Software	3
1.5 Handling CD-ROMS	7
1.6 Using “Sew-Ware Conversion Tool ” User’s Manual	7
1.7 “Sew-Ware Conversion Tool” Help Features	8
2. Working with Files	9
2.1 Load Design	9
2.2 Catalog	9
2.3 Close Design	10
2.4 Save	10
2.5 Save As	10
2.6 Read from machine Disk	10
2.7 Reading procedure	10
2.8 Types of machine Disk	11
2.9 Printing Designs	12
2.10 Customize Print Properties	12
2.11 Design Options	12
2.12 Mask	13
2.13 Design’s Mask	13
2.14 Company Logo	13
2.15 Company Logo Properties	13
2.16 Designs Settings	13
2.17 Size Properties	14
3. Transmit to Sewing Machine	15
3.1 Transmit a design to the Singer XL-5000/ XL-6000 sewing machine	15
3.2 Transmission of big embroidery designs to XL-5000/XL-6000 Sewing machine	16
3.3 Procedure of downloading designs to the XL-5000/XL-6000 sewing machine	17
3.4 How to adjust thread tension “manually”	18
4. Modifying designs	19
4.1 Center Design	19
4.2 Clean Up	19
4.3 Stitch Colors	19
4.4 Changing the background color	20
5.Redraw process	21
5.1 Controlled Redraw	21
5.2 Redrawing tools	21

6. Working on screen	22
6.1 Zoom	22
6.2 Stitch Ends	22
6.3 Ruler	22
6.4 Grid	23
7. System Parameters	24
7.1 System Parameters	24
8. Toolbar	25
8.1 Using Toolbar	25
Index	26

1. Getting Started –Setting up the System

Thank you for using the “Sew-Ware Covnersion Tool” software.

This software has been especially designed to allow easy and direct transfer of your embroidery design from your PC to the XL-5000/XL-6000 Sewing machine.

All you have to do is simply open the desired design from the “Sew-Ware Covnersion Tool” software and transmit it to the XL-5000/XL-6000 machine.

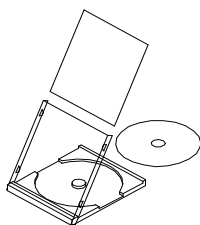
All popular embroidery formats are available to allow you to import almost any design obtained.

What is more, “Sew-Ware Covnersion Tool” includes a number of very useful editing functions allowing to clean it up, center it or even change it’s colors.

Please study through the pages following in this manual in order to get familiar with all the features and functions of this software.

1.1 Contents of package-Accessories

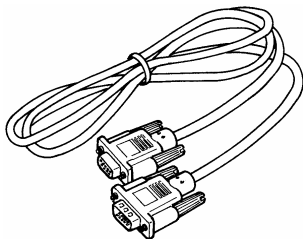
- One (1) CD containing the “Sew-Ware Conversion Tool” software.



“Sew-Ware Conversion Tool”
Software 1 piece

1.2 Additional required Accessories (not provided)

In order to connect your personal computer to the XL-5000/XL-6000 sewing machine and be able to send designs via the “Sew-Ware Covnersion Tool” you will need to purchase separately one Serial Cable.



Serial Cable
1 piece

This can be purchased at any shop selling computer or electronic accessories.
Please ask for a serial cable with the following description:

"Null Modem RS 232 DB9 Male - DB9 Female" (max. 5m)

1.3 Minimum System Requirements

The following is a list of minimum hardware requirements for “Sew-Ware Covnersion Tool”

- PC fully (100%) compatible computer with a **PENTIUM II** processor.
- A minimum of **64 MB RAM**.
- Standard CD –ROM drives.
- A hard disk with a minimum of **500MB of free space**. The more space that is available, the more stitches that can be stored on the hard disk. However, the program itself requires at least 70MB of free hard disk space to run plus an additional amount of space for the Windows operating system.
- Color standard (640X480 pixels, 16colors) **VGA adapter** connected with a color VGA monitor (1024x768 pixels, 65,000 colors recommended).
- A **Microsoft compatible mouse** attached to an available port of the PC (usually COM1). The mouse is a pointing device necessary for proper navigation within the program.
- **Standard IBM serial card COM** (for connection to XL-5000 /XL-6000 sewing machine).
- “Sew-Ware Conversion Tool” software is compatible with Windows 95^(TM), Windows 98^(TM), Windows NT^(TM) operating system, Windows 2000^(TM), Windows ME^(TM), Windows XP^(TM) operating systems.

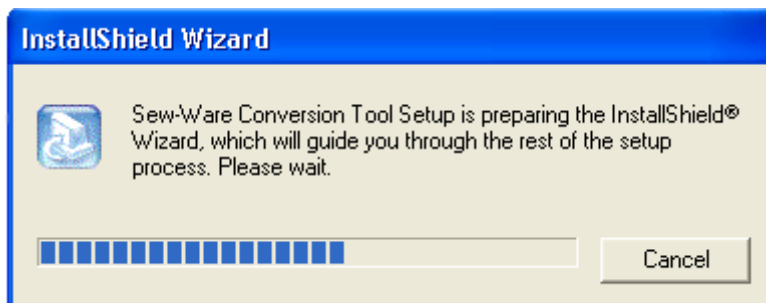
1.4 Installation of the “Sew-Ware Covnersion Tool” software

The “Sew-Ware Covnersion Tool” software comes on a CD-ROM disc.
In most personal computers the default drive setting for a CD-ROM drive is “D:”

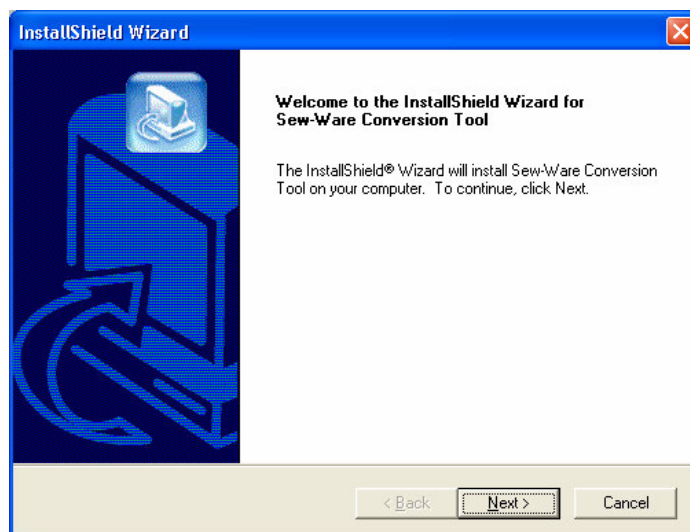
Please insert the “Sew-Ware Covnersion Tool” CD-ROM into the CD-ROM disc receiver in your PC.

After some seconds, the Installation procedure of the software will start automatically.
In case this will not occur after a short while, you can run the installation procedure manually by going to the “Start” option of Windows, select “Run”, type “D:\setup.exe” and click on OK.

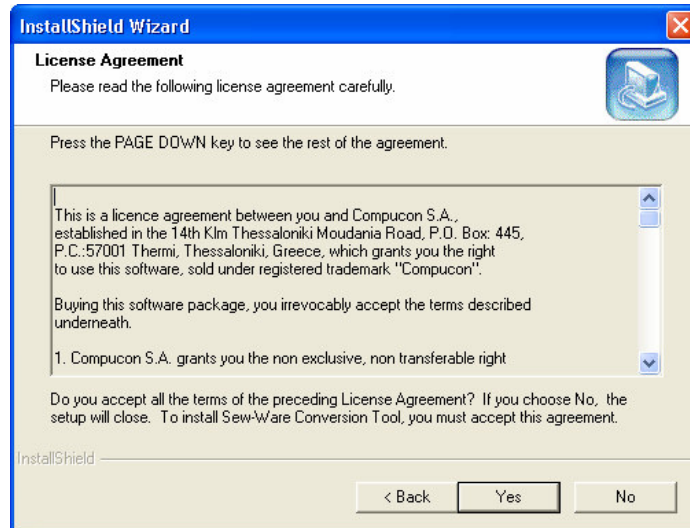
The Setup windows appear next.



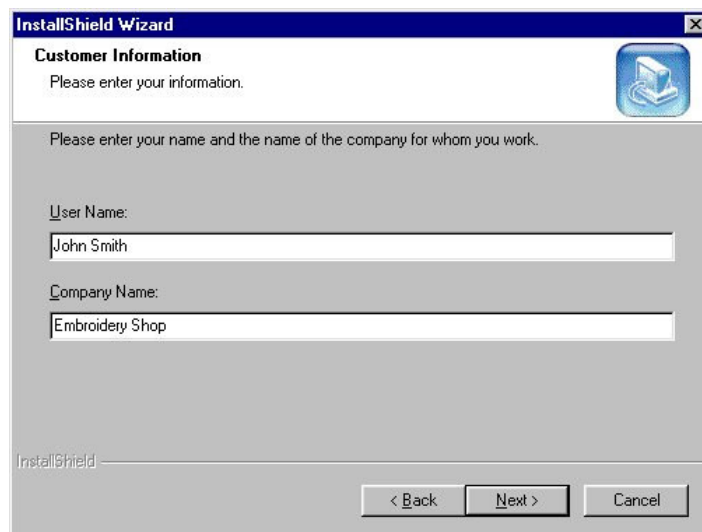
Immediately after the Setup window, the step by step installation of the software begins with the Welcome window. You can always abort the installation procedure by clicking on the “Cancel” button.



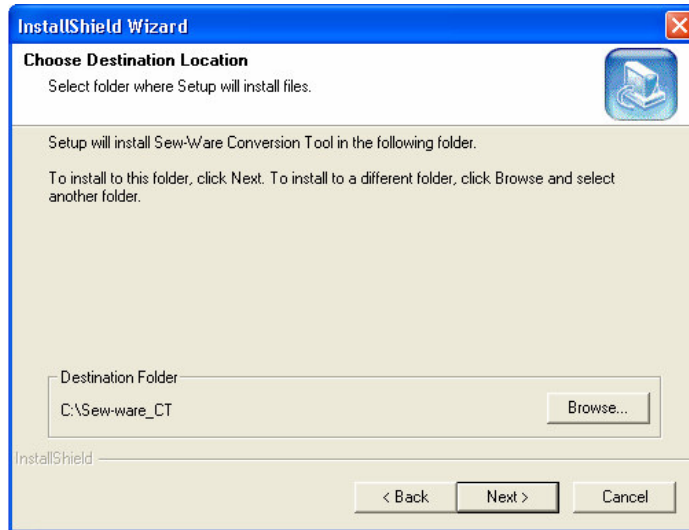
Click on “Next” to move on the next screen.



After reading and agreeing with terms given in the License Agreement, please click on “Yes”. Now define your User Name and Company Name,



and again click on Next, and then select the directory where the software should be installed. It would be recommended to use the default selected directory.

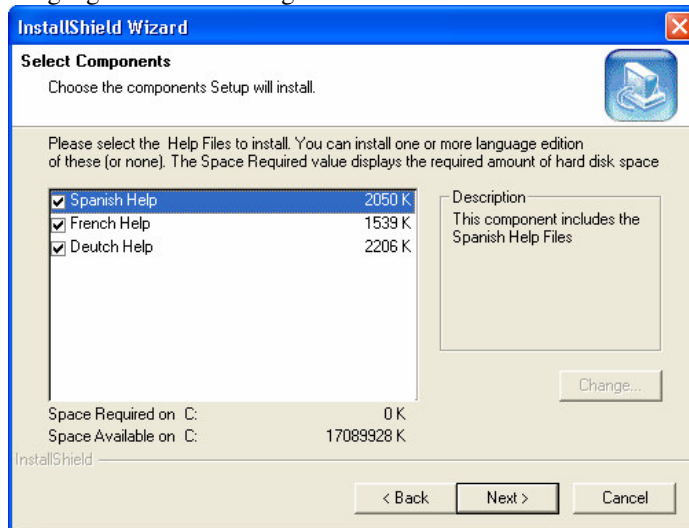


Click on “Next” to continue.

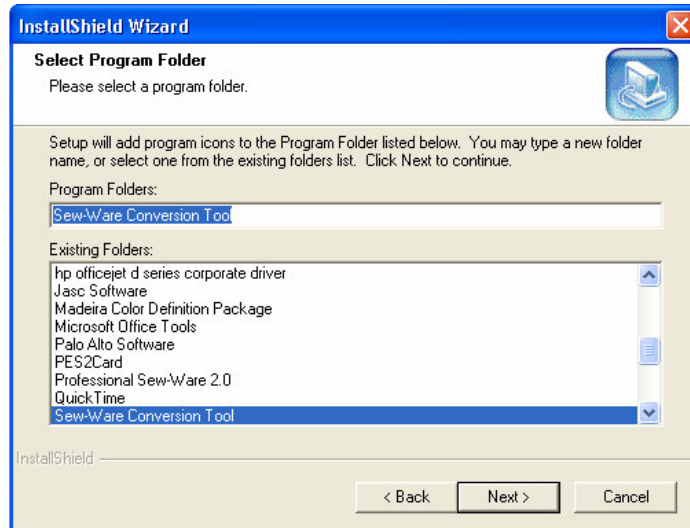
“Sew-Ware Covnersion Tool” software comes in 4 different languages: English, Spanish, German, and French.

This goes also for the “Sew-Ware Covnersion Tool” Help files section.

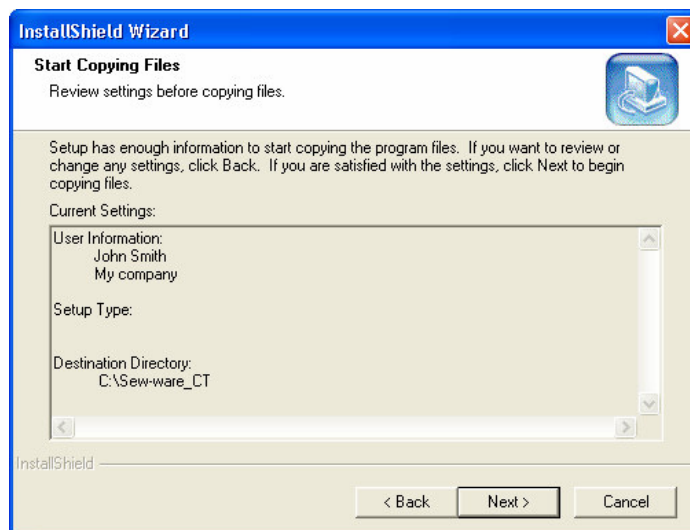
In order to use as less disk space as possible and install only the necessary to you language, please select the desired language on the following screen:



Now you are prompted to select the Program Folder where the shortcut for the software will be stored.

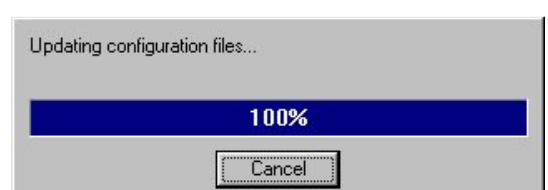
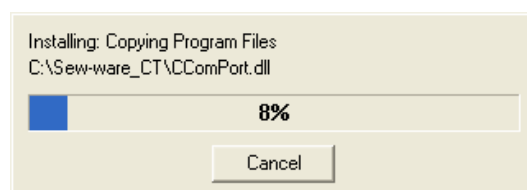


Simply click on “Next” to continue. Finally you are requested to confirm all the selections made during the installation set-up.

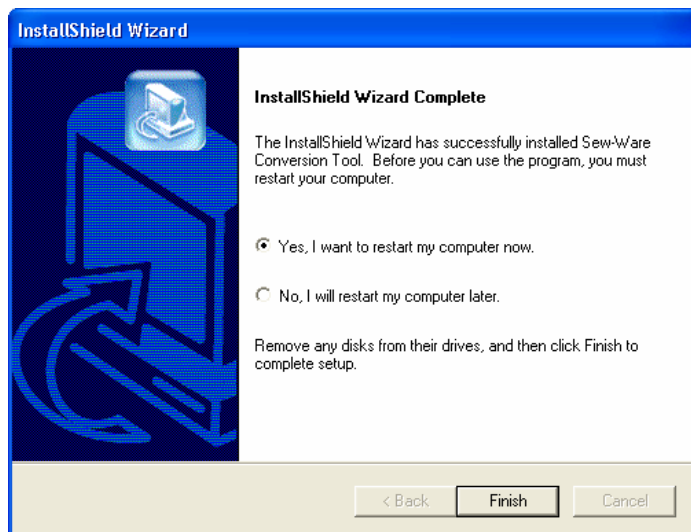


Pressing the “Next” button will finally start the copy and installation of the “Sew-Ware Covnersion Tool” software files to the given directory on the hard disk.

A progress bar will indicate the stage at which the installation procedure is. It will finish when it has reached to 100%.



When finished you will be prompted that the procedure has finished installing the software. It would be advisable to reboot your computer at this stage by selecting “Yes, I want to restart my computer now.”



If the installation utility identifies a lack of available space on your hard disk, an error message will prompt you to free some hard disk space before proceeding with the installation. You can always abort the installation procedure by clicking on “Cancel”.

Note : If for any reason you would like to uninstall the software, select from “Start” -> “Settings” -> “Control Panel” -> “Add/Remove Programs” icon. From the appearing window scroll down until you find the “Sew-Ware Covnersion Tool” option and click on the “Add/Remove” button.

1.5 Handling CD-ROMS

CD-ROMs are an excellent media for holding information. A typical CD can hold up to 650 MB of storage space and access time is relatively fast.

In the uncommon event that you experience any difficulty installing the program from your CD, please make sure that the CD Drive itself is in proper working order.

In addition, please check that the backside of the CD (where the data is stored and no information is printed on) is perfectly clean and free from dirt, dust, and greasy marks, including fingerprints.

1.6 Using “Sew-Ware Covnersion Tool” User’s Manual

In the following pages you will receive detailed explanations on the functionality and use of all the incredible functions and features included in the “Sew-Ware” software. Please make sure to study through all the pages provided in this manual.

1.7 “Sew-Ware Covnersion Tool” Help Features

While working with the software it is also possible to receive valuable information and support from the software itself, with use of the “Sew-Ware Covnersion Tool” Online Help.

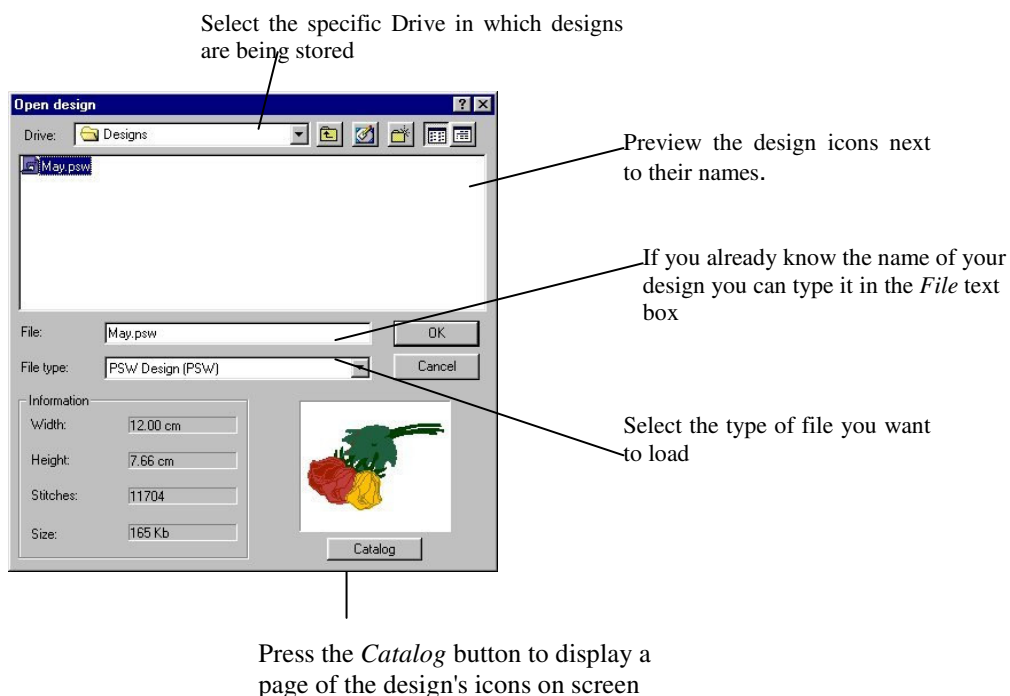
- To display the table of contents, choose Help>Contents. Clicking on the Contents option prompts the program to activate the Windows Help feature, and displays a menu window with the available help topics.
- To access help for the current content on screen, place the mouse pointer on the menu or toolbar and then press F1 on the keyboard.
- Select Help>Search and type a subject name. The available subjects are displayed in a table.

2. Working with Files

This chapter introduces the basic functions of how to read designs from the hard disk or from machine disk, write designs onto the hard disk and print the on screen design.

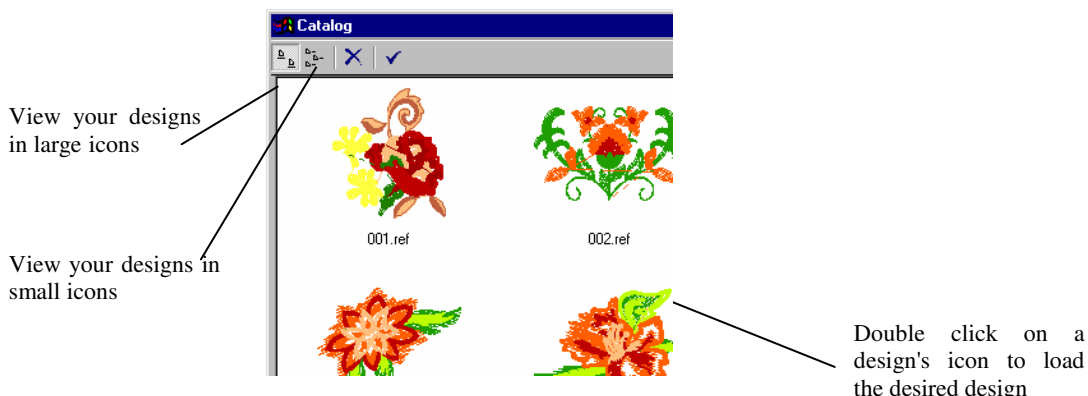
2.1 Load Design

Select an existing design from your hard or floppy disk.



2.2 Catalog

Press the *Catalog* button to view the design icons.



2.3 Close Design

Select Files>Close to close the current working design. If you haven't already saved the changes you made, the program prompts you with a window message to save them.

2.4 Save

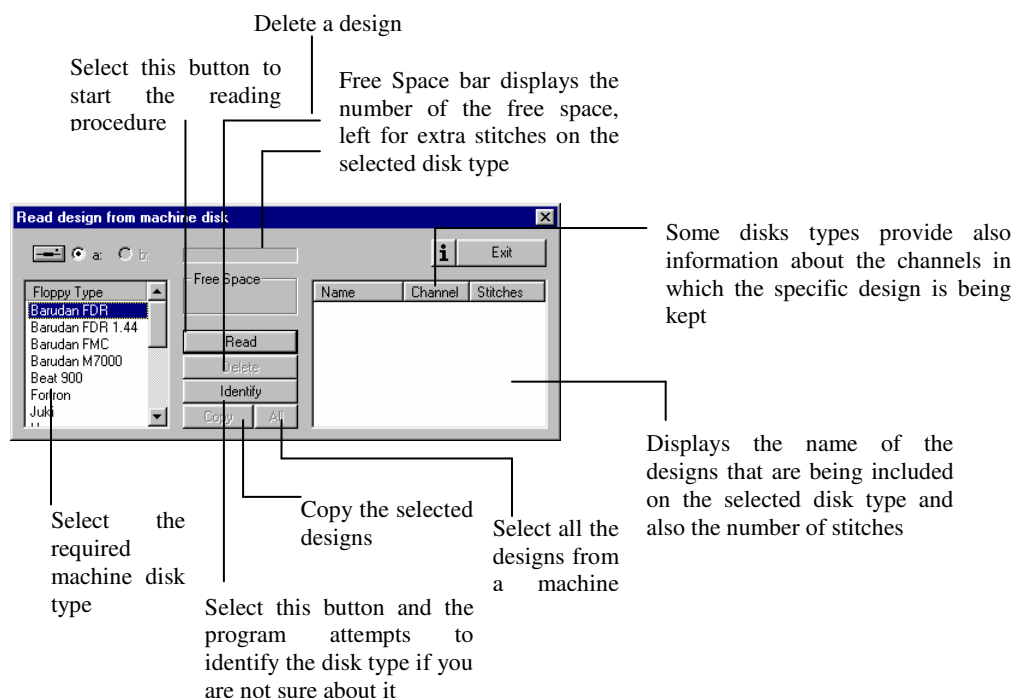
Select Files>Save, to save your current design onto hard disk under its current file name (as it appears at the top of your screen).

2.5 Save As

Select Files>Save As, to save your current design under another name.

2.6 Read from machine disk

Choose Files>Read from machine disk.



2.7 Reading procedure

- ◆ Select the machine disk type and choose the design you wish to read.
- ◆ Select *Read* and the program will load the chosen design into memory.
- ◆ If you select the wrong disk type, the program will display an error message, informing you about the wrong disk type.
- ◆ If you are not sure about the disk type, select *Identify* and the program will attempt to identify the disk.

- ◆ Select a design of a particular machine format and choose *Delete* to erase the design. If you select more than one designs, the *Delete* button is disable meaning that you can not continue to a mass deleting procedure.
- ◆ If you have a disk that includes one or more designs, you can select one (press “Ctrl” and use the left mouse button to select the desired design) or select all of them by selecting *All*.
- ◆ Choose *Copy* to copy the selected designs.
- ◆ Select *Exit* to return to the *Read Design* dialog box.

2.8 Types of machine disks

Machine code:	Type of diskette required
MELCO DOS	2HD
MELCO	2DD
TAJIMA_DOS	2DD or 2HD
ZSK	2DD
ZSK_DOS	2DD or 2HD

Melco Formats

There are two formats available for Melco

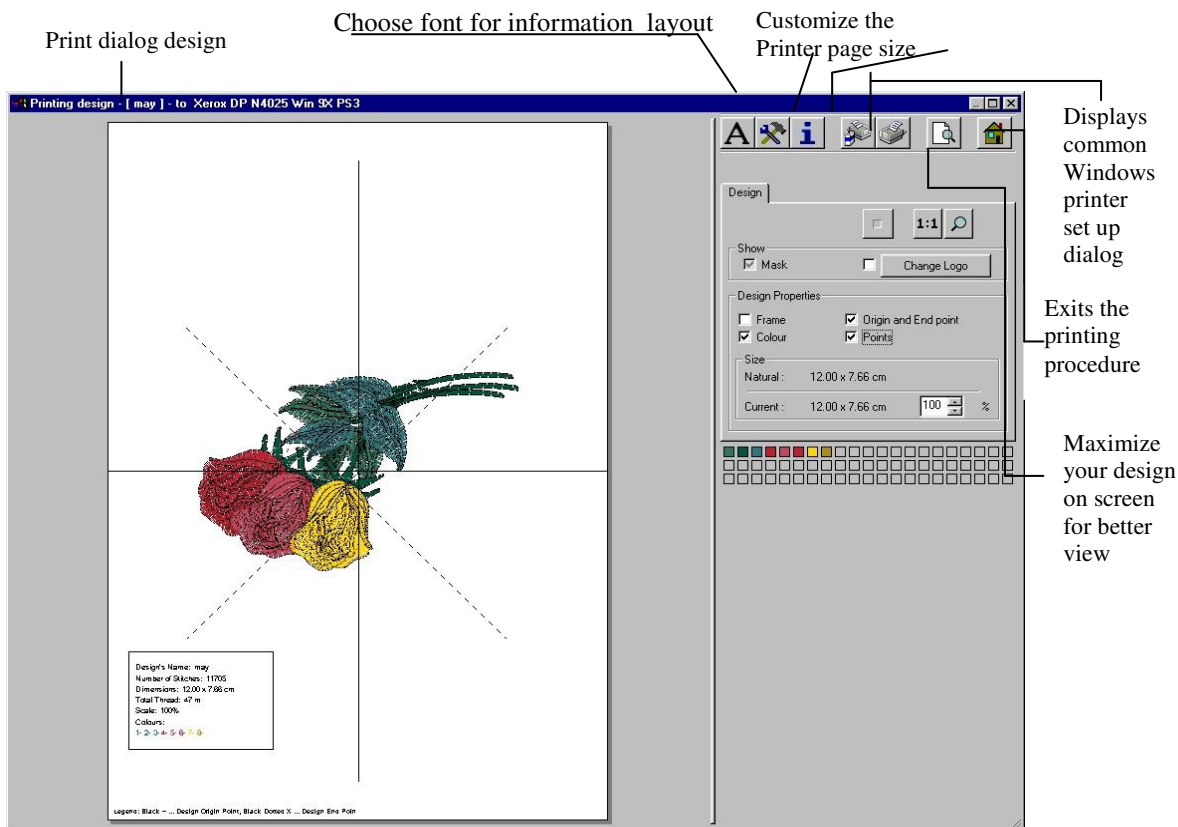
- ◆ **MELCO Superstar** must use 2DD diskettes.

Due to the nature of the *MELCO Superstar* format, your computer must be equipped with a disk controller card that allows reading in *single sided, single density* format in order for the procedure to work successfully.

MELCO DOS must use 1.44 KB (2HD) diskettes.

2.9 Printing Design

The *Print* dialog box contains all the necessary controls you'll need to choose the exact set-up of the final printout. It also acts as a preview window for the final printed design. You can manipulate and customize every aspect of the page or pages that will be printed.



2.10 Customize Print properties



Customize the printer page size (in case you have an unknown, non-standard printer), and set the page margins and the number of copies you want to print. From the same dialog box, one of three drawing modes can be chosen for the design, relative to the line width and the colors that will be displayed on the printed page. By clicking on *Set Default*, the default value for each property will be displayed. At the bottom of the dialog box, you can either enable or disable the warning that appears if the printer has limited capability for rendering (printing the exact color shading of your design).

2.11 Design Options

-  **Tiles** If a design is too large to fit on one sheet of paper, you can tile the printout so the printer will use more than one sheet to print out the design at original scale. Simply click on the tile option to choose the desired print layout.

2.  **1:1** Sets the scaling factor to 100%. In this case, the actual printed size is equal to the physical size of design (if the paper size is large enough).
3.  **Zoom** maximizes the design to cover the maximum printing area available for the selected paper size in the print Setup.

2.12 Mask

When the *Mask* checkbox is disabled, the design information will not appear and cannot be printed.

2.13 Design's Mask

When you click on the checkbox for the second time (middle gray state), a small text box will appear containing basic design information.

The box can be moved anywhere in the printing area of the paper. Just click on it with the left mouse button and drag it to another location. The information in this option gives you:

- Design name.
- The number of stitches in the design.
- The dimensions of the design.
- The total length of thread (in meters) used in this design.
- The scale of the printed design to the original artwork.
- Then number of applique blocks.
- The needle color sequence. *Note:* If a thread color changing becomes from a Stop Code you can view beside the color number and a small letter "s" that represents the code.

2.14 Company Logo

Enable this checkbox and a frame with the sign of *Company Logo* printed on it will appear. Click anywhere inside the frame and drag it to the desired location on the page. Press the right mouse button and the logo can also be relocated.

2.15 Company Logo Properties

Press the *Logo Company* button and in case you wish to insert another image (.bmp file) from your storage device (diskette, hard disk, CD-ROM, etc.) select the *Change Logo* button.

Click on *OK* and the desired logo will appear in the *Printing Design* frame.

If you wish to *Maintain* the *aspect ratio* when *resizing* the company logo frame you can enable the respective checkbox.

2.16 Design Settings

Frame: Checking this option will draw a box around the design (When you have enabled the *Mask* checkbox the *Frame* option is disabled because the program sets a frame around the whole page of your printing area and not only around your design.)

Color: Checking this option will display the design on single color on the screen.

Note: If you have a monochrome printer, you must switch off the "colors" option (by removing the check mark).

Origin and End Point: Displays and prints the origin point (with +) and the ending point (with X) of the design.

Points: Displays and prints the stitch penetration points in the design.

2.17 Size Properties

Size “Natural:” Displays the original dimensions of your design.

Size “Current:” Displays the current printing dimensions of your design.

The “%” box shows you the scaling of the print preview to the original size of the design. You can type an arbitrary scaling factor in the *% Edit* field and press *Enter* to display and print the design at the desired scaling.

3. Transmit to Sewing Machine

This chapter you will teach you how to transmit a design directly from the “Sew-Ware Covnersion Tool” to the XL-5000/XL-6000 Sewing Machine.

3.1 Transmit a design to the Singer XL-5000/XL-6000 sewing machine

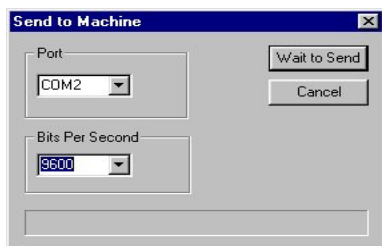
“Sew-Ware Covnersion Tool” Software provides you with the unique ability to directly transmit a design to the XL-5000/XL-6000 sewing machine.

There are two different ways of direct transmission of a design to the XL-5000/XL-6000 sewing machine.

Before doing this however please be noted to connect the Serial Cable (not provided, to be purchased separately) with the Serial Port on your PC (COM) and also the Serial Port of the sewing machine.

In order to transmit a design to the sewing machine, the design has to be opened in the “Sew-Ware Covnersion Tool” software.

From the menu option “File” select the option “Send to machine” and the following window will appear



1. Select the Port the sewing machine is connected to.
2. Define the “Bits per second” parameter (also referred to as “Baudrate”).
This value defines the speed at which the “Sew-Ware Covnersion Tool” software will transmit the design to the sewing machine and the speed at which the machine will accept it.
The “Bits per second” value at the software side has to have the same value as the “Baudrate” value at the sewing machine side, in order to be able to transmit a design to the sewing machine.(for details on how to set up the “Baudrate” of the sewing machine please refer to your XL-5000/XL-6000 sewing machine instructions book)
3. When ready, click on the “Wait to send” button and at the same time go to your sewing machine and request to receive it (please study related section in XL-5000/XL-6000 sewing machine instructions book).
4. After requesting the design from the sewing machine side, “Sew-Ware Covnersion Tool” software will start sending the design data to the XL-5000/XL-6000 machine.
A progress bar both at the machine and also the software side will indicate the action in progress. When all of the transmitted data is received, the progress bar will stop indicating the transmission and you will be able to use your design on the sewing machine side, in the same way as any other design read into the machine.

3.2 Transmission of big embroidery designs to XL – 5000/XL-6000 sewing machine

When transferring enormous volume of embroidery data to sewing machine (very big designs), there might be the case of that the sewing machine will not be capable to correctly edit the related data and display a “Memory full” message icon.

In this case and in order to avoid this situation, please follow the below mentioned procedure:

Put the embroidery data of the big design in the temporary saving memory of the machine first, then turn off and turn on power of the machine, or go to the editing screen then turn off and turn on power to machine and then use power fail function. Then you may continue to download data and you will be able to edit this data on the machine screen without any problem.

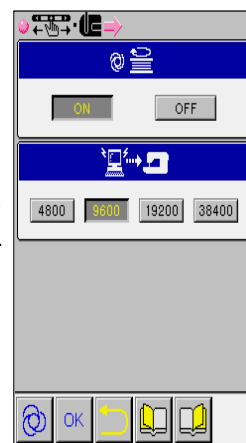
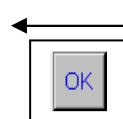
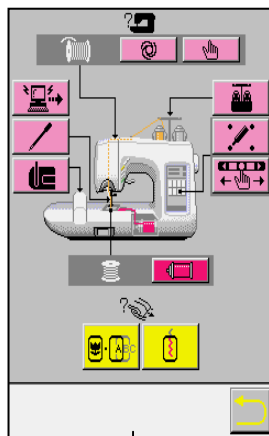
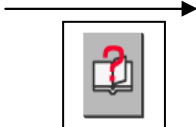
3.3 Procedure of downloading designs to the XL-5000/XL-6000 sewing machine

Transfer regular pattern data

(1) Pattern selector screen

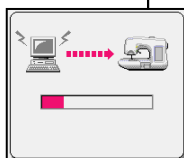
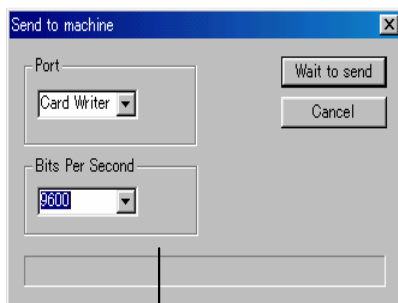
Set BPM(transfer speed)

*One save the setting it is not necessary to make re-setting

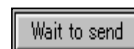


On "Sew-Ware Covnersion Tool" side, Click on File⇒Send to machine

*Adjust the machine side BPM(transfer speed)
XXX Bits Per Second



1.On "Sew-Ware Covnersion Tool" side, Click on



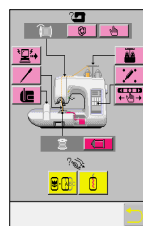
2.On machine side, Press



As soon after completion of transfer procedure it will return to GUIDE screen

At the time transferred data is selected
It will return to the screen (1) or (2)

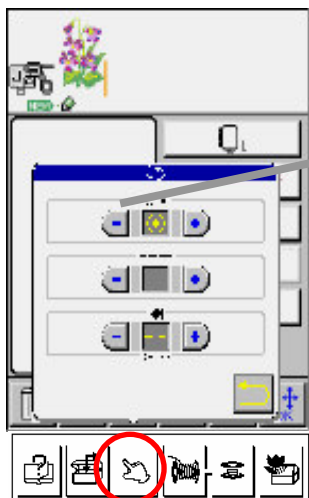
With this icon on
pattern selector screen
it will go to EDIT step



3.4 How to adjust thread tension “manually”

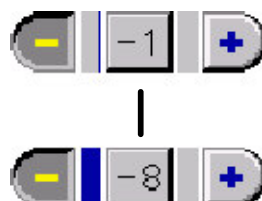
The sewing machine has an automatic computer controlled thread metering system. As for the design transferred to the sewing machine with " Sew-Ware Conversion Tool", a set-up of a thread condition is set up in the strong stitch to show stitch beautifully. If, when thread tension is too severe or a trouble such as thread breakage occurs while sewing, Set up thread tension in the favourite strength with the following process.

Tension is shown on a "pop-up" screen accessed by pressing key . 



Press  to decrease needle thread tension.

Thread tension decreases in eight steps.



* To return the thread tension to the automatic setting, press the center of the tension pictogram .

For example touching the -8 will return the machine to automatic tension setting



4. Modifying Designs

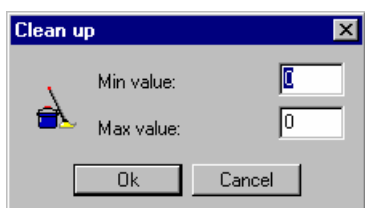
This chapter will teach you how to center a design and clean up the small stitches.
The specific chapter also provides you with the necessary information about adjusting the color parameters

4.1 Center Design

Clicking on this option will center the design according to the frame center.

4.2 Clean Up

The *Clean Up* function deletes small stitches in your design, the length of which can be defined.



If you type in a minimum value of 0 and a maximum value of 3 (in tenths of millimeters), then all the stitches that fall between these two values will be deleted.

This is a useful function to delete those stitches that are superfluous to requirements and more likely to cause thread breaks.

If you wish to clean up the small stitches in a block of stitches only rather than the entire design, you can define the parameters values from the Block properties > Parameters> Clean up.

4.3 Stitch Colors

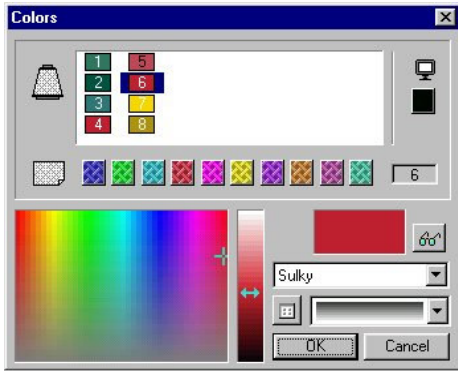
Select Parameters > Stitch Colors, or the related tool on the main toolbar.

This option allows you to change the thread and screen colors used by the program.

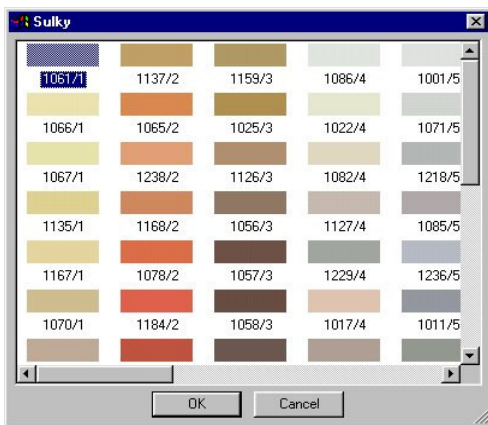
Changing the thread colors



On the window which appears, select the color which you would like to change and then change it by select a different value from the RGB color bar and also adjusting the colors light intensity. You can also select the desired color directly by clicking on the desired color on the image that you are digitizing on.



The colors can also be selected with the use of the thread catalogue. Select the thread palette and click on the Thread palette button to view and select from the range of colors provided.



After having set the colors for the various parts of your design click on OK to confirm the changes.

4.4 Changing the Background color

In order to change the background color of the working environment of “Sew-Ware Covnersion Tool”, simply click on the related button on the “Colors” window.



Then select the desired color for the background from the RGB color bar and click on OK to confirm the change made.

5. Redraw

This chapter describes how to redraw one design on screen and control the redrawing process.

5.1 Controlled Redraw

Select Choices>Controlled Redraw or press Shift+R.

This function will hide your design, and the redrawing tools will appear.

5.2 Redrawing tools



Press to remove the design from the screen and redraw it from the beginning (or press “Home”).



Press to remove the design, color by color, from the screen (or press “C”).



Press repeatedly to remove the design, block by block, from the screen (or press “Page Up”).



Press repeatedly to remove the design, stitch by stitch, from the screen (or press “←”).



Press once to start redrawing the design (or press “Enter”).



Press once to stop redrawing the design (or press “S”).



Press repeatedly to draw the design, stitch by stitch, on your screen (or press “→”).



Press repeatedly to draw the design, block by block, on your screen (or press “Page Down”).



Press repeatedly to draw the design, color by color, on your screen (or press the space bar).



Press to redraw the design until the end (or press “End”).



Press to delay the redrawing speed of your design (or press “+”). There are up to five speed stages so whenever this particular tool is selected, a new dot will be added on its right.



Press to terminate the redrawing operation.

6. Working on screen

This chapter tells you how to manipulate your designs on screen.

Learn how to enlarge any part of the design, highlight stitch points, measure your designs and many other useful functions.

6.1 Zoom

Select Choices>Zoom or press 'Z'.

Enlarge any part of the design on screen with the *Zoom* function. It works by dragging a constant-shaped rectangle (using the mouse) across the area you wish to zoom.

The zoom rectangle appears with a click of the left mouse button, at which point the mouse pointer will change to a magnifying glass with a plus (+) sign.

- ◆ To zoom in, press the left mouse button once, move the pointer diagonally across the area to be enlarged and press the left mouse button again to confirm the area. Or click the left mouse button and drag it across the area.
- ◆ To zoom out, click the icon on the toolbar for zoom out, (magnifying glass with a minus sign) and click the left mouse button and move the pointer across the desired area (same as for zoom in).
- ◆ Press 'Z' twice or select the *Fit in screen* icon to maximize the design or image to full screen.
- ◆ Press the 'Ctrl + Page Up' keys to magnify your design or image bring the image or design closer.
- ◆ Press 'Ctrl + Page Down' to reduce the design or image (zoom out).
- ◆ Press the *Actual zoom (1:1)* tool to display your design in the original created size.

Note: When you select the *Zoom* function you can press the *right* mouse button and from the right pop up menu you can *zoom in*, *zoom out* or *fit* on screen.

6.2 Stitch Ends

Select Choices>Stitch ends or press 'P'.

This function highlights each stitch point on the screen with a white/black dot making it easy to see the position of the stitch on screen.

Note: The color of the stitch ends depends on the selected screen color.

- ◆ Click once on 'P' to highlight the stitch points.
- ◆ Click again on 'P' to display the stitch points with bold dots.
- ◆ Press the same key for the third time to disable the dots.

6.3 Ruler

Select Choices>Ruler or press 'Q'.

Selecting *Ruler* will prompt you with a display in the status bar at the bottom of the screen.

- ◆ Press the left mouse button once to define the point from which you want to start measuring or click and drag from one point to another.
- ◆ Move the mouse pointer to the point at which you want to stop measuring.

The message at the bottom of the screen will constantly monitor and display your movements where:

D displays the distance between the two selected points
X displays the horizontal distance traveled
Y displays the vertical distance traveled
Press “Esc” to terminate the operation

6.4 Grid

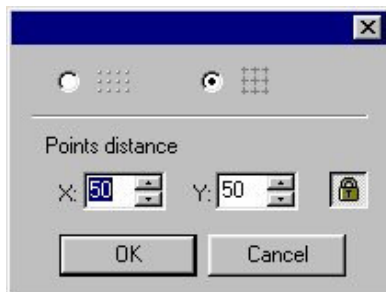
Select Choices>Grid or press W.

Select this function to display grid points on the screen as a visual aid.

Choose the type of the grid points and adjust the point's distance vertically and horizontally in tenths of a millimeter.



Press this button to maintain the aspect ratio (x,y) of the grid.



7. System Parameters

In this chapter you will learn how to define the system parameters.

7.1 System Parameters

From this option you can define basic settings of your system, as described below:

Select Parameters>System Parameters or press F2.



Language: Selects the working language for “Sew-Ware Covnersion Tool”

Unit systems: “Sew-Ware Covnersion Tool” gives you the option to work either in inches or in millimeters, by setting this option (refers to rulers, measuring distances etc.)

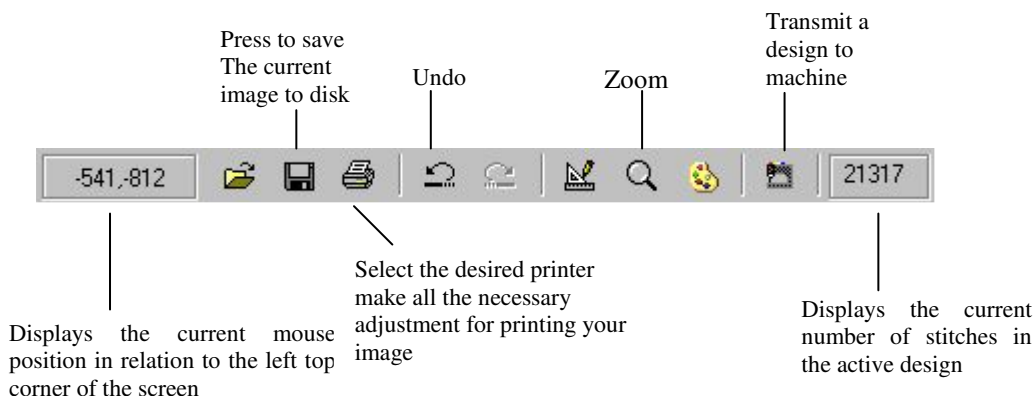
8. Using Toolbar

Learn how to use the screen toolbar for quick access to program function

8.1 Using Toolbars

“Sew-Ware Covnersion Tool” has a toolbar to provide easy access to the most commonly used functions. All of the functions performed by the toolbar icons are also performed by pull-down menu options. You may find that it is easier to use the menus when starting out. As you gain proficiency the tool-bar icons can save many steps in performing repetitive tasks.

“Sew-Ware Covnersion Tool” starts off with the toolbar displayed below



Index

A	
Adjust thread tension “manually”	18
B	
Background color	20
C	
Catalogue	9
Center Design	19
Clean Up	19
Close Design	10
Contents of package-Accessories	1
Controlled Redraw	21
D	
Design Options	12
Design Settings	13
Downloading designs to the XL-5000/XL-6000 sewing machine	17
G	
Getting Started	1
Grid	23
I	
Index	26
Installation of the “Sew-Ware Covnersion Tool” Software	3
L	
Load Design	9
M	
Mask	13
Modifying designs	19
P	
Printing Design	12
Company Logo Properties	13
Company Logo	13
Customize Print Properties	12
Origin and End Point	14
Points	14
Size Current	14
Size Natural	14
Size Properties	14
R	
Read from machine disk	10

Reading procedure	10
Redraw process	21
Ruler	22
S	
Save As	10
Save	10
Stitch Colors	19
Stitch Ends	22
System Parameters	24
System Requirements	2
T	
Thread Color	19
Toolbar	25
Transmit a design to the Singer XL-5000/XL-6000	15
Transmission of big embroidery designs to XL-5000/ XL-6000 Sewing machine	16
Types of machine disks	11
Melco Formats	11
U	
Using “Sew-Ware Covnersion Tool” User's Manual	7
Using Toolbars	25
W	
Working on screen	22
Working with Files	9
Z	
Zoom	22

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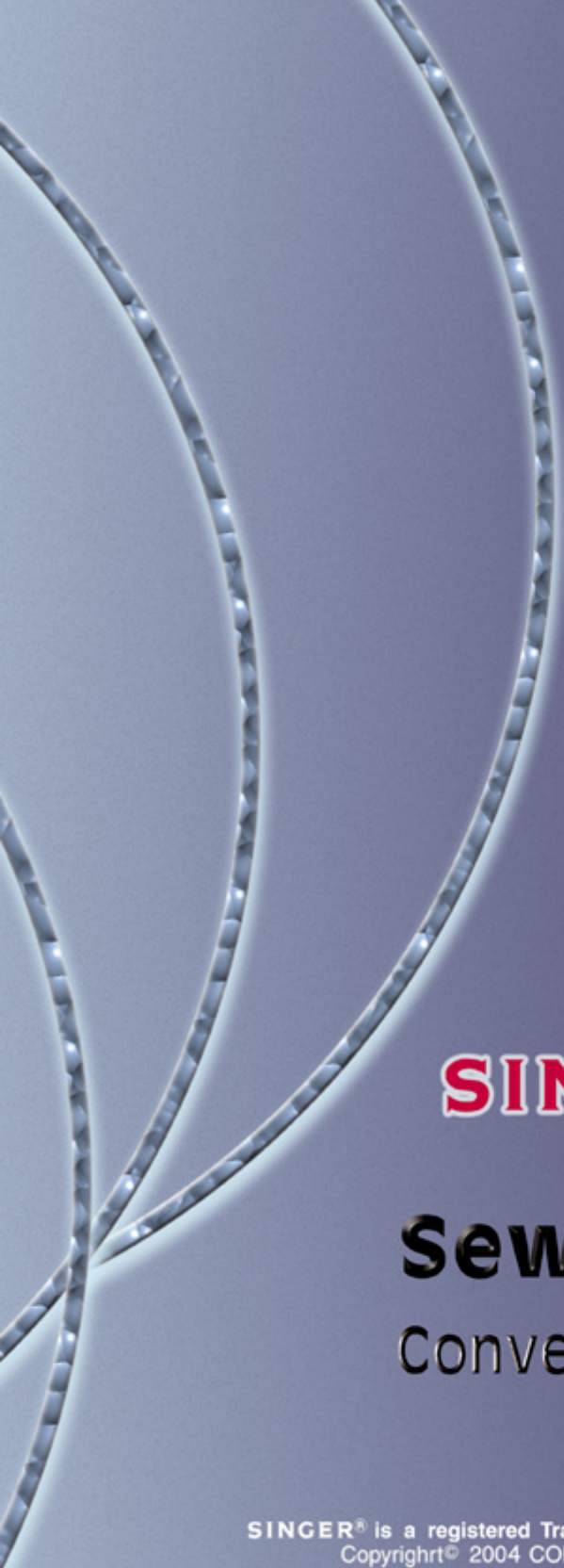
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